

Oncourse: Gradebook, How Points are Calculated

Use the Gradebook to calculate grades using points.

No Categories: Calculating Points with Item Values

The course grade is the sum of all grades multiplied divided by the sum of the item values and multiplied by 100.

The table below shows how the course grade is calculated with no categories:

Title	Grade	Item Value
Week 1 Assignment	19	20
Exam 1	93	100
Exam 2	75	100
Total	187	220
Course Grade	85% (187/220 * 100)	

Simple Categories: Calculating Points With Item Values

The Gradebook automatically calculates a course grade based on the number of points scored out of the total of all values submitted (i.e., a running grade). Ungraded items will not be included in the course grade calculation, so the course grade will not necessarily reflect the student's true score. If you want to include ungraded items in the course grade calculation, you must enter a 0 (zero) for those items.

The following table represents a Student Summary with 2 categories - **Essays** and **Labs**:

	Grade Points	Item Value (Points)
Essays		
Essay 1	41	45
Essay 2	27	30
Essay 3	12	15
Labs		
Lab 1	36	45
Lab 2	55	60
Lab 3	9	15

This table shows how the calculations are performed:

Category	Total Points Earned	Total Value	Average
Essays	80 = 41+27+12	90 = 45+30+15	88.88% = —
Labs	100 = 36+55+9	120 = 45+60+15	83.33% = —
Total	180	210	85.71% = —

Weighted Categories: Calculating Points Using Relative Weights

The following table represents a Student Summary of a Gradebook with 2 categories: Essays (worth 70% of the Course Grade) and Labs (worth 30%.) The Essays category uses proportional weighting – the items have varying weight values (2, 3, and 5). The Category Labs use equal weighting for the first two labs, but the last lab is weighted twice as much.

Note: If using the Test/Survey tool, make the weights relative to the value of the Test/Survey items.

The tables below show how the course grade is calculated:

Title	Points/Percentage	Point Value	Relative Weight	Weight within Category	Weighted Grade
Category Essays (70% weight)					
Essay 1	15 (100%)	15	2	.20 = —	20% = 100% * .20
Essay 2	18 (60%)	30	3	.30 = —	18% = 60% * .30
Essay 3	45 (100%)	45	5	.50 = —	50% = 100% * .50
Total	78	90	10		88% = 20+18+50
Category Labs (30% weight)					
Lab 1	24 (96%)	25	1	.25 = —	24% = 96% * .25
Lab 2	21 (84%)	25	1	.25 = —	21% = 84% * .25

Lab 3	19 (76%)	25	2	.50 = _____	38% = 76% * .50
Total	64	75	4		83% - 24+21+38

Overall Course Grade	
Essays	61.6% = 88% * 70%
Labs	24.9% = 83% * 30%
Total	86.5%

Note: When you assign Gradebook items to a category, keep in mind that items that are worth more points or have a greater item relative weight are already "weighted" more heavily. If you want all items to influence the grade equally, you must make them worth the same point value.

Note: For more examples on how categories and weighting affect grade calculations for points gradebooks, go to:
<http://kb.iu.edu/data/axwr.html>